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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/049,212	02/05/2002	Sang-Young Lee	B-4483PCT 619789-9	8084	
36716 7	7590 09/08/2005		EXAMINER		
LADAS & PA		CHEN, VIVIAN			
5670 WILSHIRE BOULEVARD, SUITE 2100 LOS ANGELES, CA 90036-5679			ART UNIT	PAPER NUMBER	
	·		1773		
			DATE MAIL ED: 09/08/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/049,212	LEE ET AL.				
		Examiner	Art Unit				
		Vivian Chen	1773				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	•	•					
1) 又	Responsive to communication(s) filed on <u>15 Ju</u>	ine 2005.					
·	This action is FINAL . 2b) This action is non-final.						
'=	'=						
.—	closed in accordance with the practice under E	•					
Disposition of Claims							
4)⊠	Claim(s) <u>1-13,16-28,30,31,33-36,47-49,54 and</u>	55 is/are pending in the applicati	on.				
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) <u>17-28,30 and 33-36</u> is/are allowed.						
· -	6)⊠ Claim(s) <u>1-13,16,31,47-49,54 and 55</u> is/are rejected.						
	Claim(s) is/are objected to: Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
		•					
Attachment(s)							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4)	P10-413) le				
3) 🔲 Inforn	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5) Notice of Informal Pa		⊢ 152)			

DETAILED ACTION

1. Claims 14-15, 29, 32, 37-46, 50-53, 56-58 have been cancelled by Applicant.

Specification

1. The amendment filed 6/15/2005 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: the newly added claim limitation prohibiting the presence of aromatic polymers comprising thioether. Negative limitations to amend claims around the prior art constitute new matter if not supported by the specification. Ex Parte Grasselli, 231 USPQ 393.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-13, 16, 31, 47-49, 54-55 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the

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claimed invention for the reasons set forth in the objection to the Amendment filed 6/15/2005 under 35 U.S.C. 132.

Response to Amendments

4. The rejections under 35 U.S.C 103(a) based on NIKASHIMA ET AL in paragraphs 4-5 in the previous Office Action have been withdrawn in view of Applicant's amendments. However, the Examiner's withdrawal of these rejections does *NOT* constitute a concession as to the applicability or non-applicability of the previously cited prior art to the previously presented claims or to the claims as presently amended. Upon cancellation of any new matter, the rejections may be reinstated.

Response to Arguments

- 5. Applicant's arguments and the SANG-YOUNG declaration filed 6/15/2005 have been considered but are moot in view of the new ground(s) of rejection based on the presence of new matter. However, the Examiner makes *NO* concession as to the applicability or non-applicability of the previously cited prior art to the previously presented claims or to the claims as presently amended. The Examiner reserves any discussion as the merits of the previously cited prior art references until the issue of new matter has been resolved.
- (A) With respect to the SANG-YOUNG declaration, the declaration is not commensurate in scope with the majority of the present claims. While the declaration states that the membranes of NAKASHIMA ET AL are not suitable for use in lithium ion batteries.

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Applicant has not provided persuasive evidence that the NAKASHIMA ET AL membranes are wholly unsuitable for use in other battery systems.

Allowable Subject Matter

- 6. Claims 17-28, 30, 33-36 are allowable over the prior art of record.
- 7. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to disclose or suggest: (1) the claimed methods of forming a composite membrane, wherein an active layer is formed on the precursor film by application of a liquid polymer solution, followed by stretching (claims 17, 33). Specifically, LEE ET AL (US 6,540,953) fails to claim and WO '464 fails to disclose the recited process, incorporating the step of forming the active layer using a liquid polymer solution.

Conclusion

1. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vivian Chen whose telephone number is (571) 272-1506. The examiner can normally be reached on Monday through Thursday from 8:30 AM to 6 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney, can be reached on (571) 272-1284. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

The General Information telephone number for Technology Center 1700 is (571) 272-1700.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 2, 2005

Vivian Chen Primary Examiner Art Unit 1773